

# OBJETIVOS DE APRENDIZAGEM

Apresentar conceitos básicos sobre CSS

## AGENDA

- Por que CSS?
- Possibilidades de uso do CSS
- Como CSS funciona?

## POR QUE CSS?

- Layouts de sites precisos
- Especificação centralizada
- Acessibilidade
- CSS2 totalmente compatível em todos os navegadores e grande parte do CSS3

## Possibilidades do CSS

http://www.csszengarden.com/

### APLICANDO CSS

- Arquivo externo (.css)
- Embutido no HTML (<style>)

```
<head>
     <title>Required document title here</title>
     <style>
          /* style rules go here */
      </style>
</head>
```

• Elemento individual (inline)

```
<h1 style="color: red; margin-top: 2em">Introduction</h1>
```

# COMO CSS FUNCIONA?

- Estrutura CSS
- Conceitos

### **ESTRUTURA**

- Folha de estilo
  - Conjunto de regras (rules)
    - Seletores (selectors)
    - Declaração (propriedade + valor)

```
declaration
selector { property: value; }
selector {
    property1: value1;
    property2: value2;
    property3: value3;
}
```

```
p {
  font-size: small;
  font-family: sans-serif;
}
```

```
body {
  font-size: small;
  /* font-size:large; */
}
```

```
h1 {
  color: green;
}
p {
  font-size: small;
  font-family: sans-serif;
}
```

## **EXERCÍCIO**

- https://www.w3schools.com/w3css/tryit.asp?filename=tryw3css\_default\_intro
- Utilizar o Replit ou Spaces;
- Remover todos os estilos utilizados;
- Criar uma folha de estilo para a página acima com os seguintes requisitos:
  - Utilizar 3 seletores: html, p e h1
  - html
    - Definiracor de fundo "snow" (background-color: snow)
    - Conjunto de fontes "Verdana" ou "Sans-serif" (font-family: Verdana, sans-serif)
    - Tamanho das fontes 15pixels (font-size: 15px)
    - Densidade ou peso das fontes "normal" (font-weight: normal)
  - p
    - Conjunto de fontes "Sans-serif" (font-family: sans-serif)
  - h1
    - Tamanho da fonte 36 pixels (font-size: 36px)

# CONCEITOS

- Herança
- Conflitos
- Box model

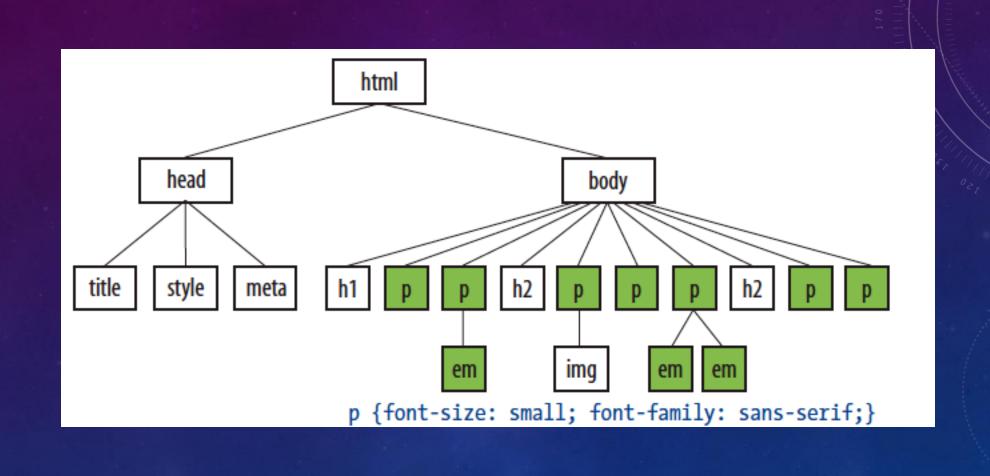
## HERANÇA

Unstyled paragraph It's the back of the note that's driving me crazy.

p {font-size: small; font-family: sans-serif;}

Paragraph with style rule applied

It's the back of the note that's driving me crazy.



### CONFLITOS

- Podem existir conflitos em definições de estilo
- As folhas de estilo possuem uma hierarquia para resolver tais conflitos:
  - 1. Definições do navegador
  - 2. Definições de estilo do usuário (definido no navegador)
  - 3. Arquivo externo (link)
  - 4. Estilos embutidos (style)
  - 5. Estilos inline
  - 6. Regras marcadas com !important

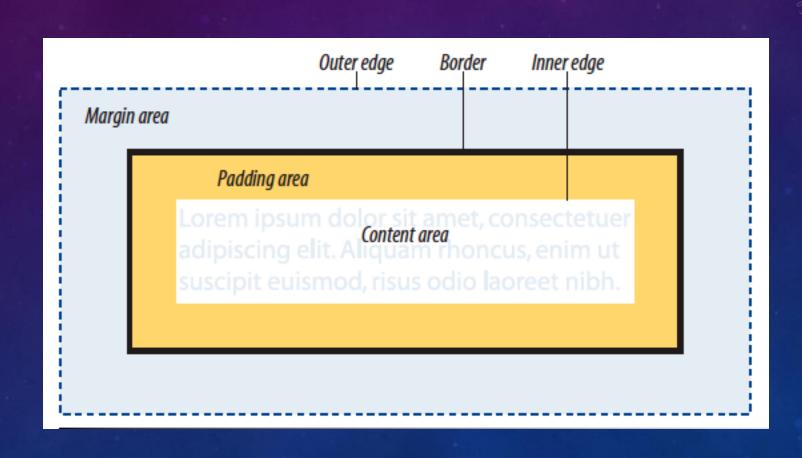
```
<style>
                                         p { color: red; }
p { color: blue; }
p {color: blue !important;}
                                         p { color: green; }
                                       </style>
```

### **ELEMENTO BOX**

```
h1 { border: 1px solid blue; }
h2 { border: 1px solid blue; }
p { border: 1px solid blue; }
em { border: 1px solid blue; }
img { border: 1px solid blue; }
```

- Aplicar as regras mostradas ao lado ao exercício anterior
- O que é mostrado?
- Essa é a maneira como o navegador "entende" os elementos de uma maneira geral

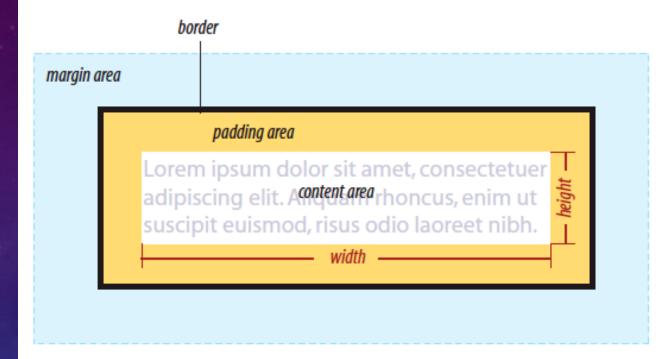
## **ELEMENTO BOX**



### **CONTENT-BOX**

```
p {
  background: #c2f670;
  width: 500px;
  height: 150px;
  padding: 20px;
  border: 2px solid gray;
  margin: 20px;
}
```

20px + 2px + 20px + 500px width + 20px + 2px + 20px = 584 pix



# total visible box width = 544 pixels width: 500px

Applying masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by flying sand, so it has to be a good seal.

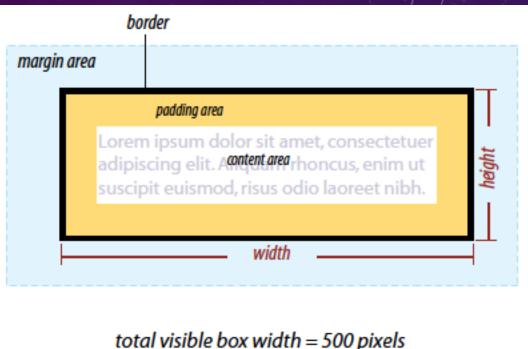
height: 150px

### **BORDER-BOX**

- Maneira alternativa e mais intuitiva de especificar o tamanho das caixas
- box-sizing: border-box
- Aplica os valores de width e height para o box por completo

### **BORDER-BOX**

```
p {
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
  width: 500px;
  height: 150px;
```



total visible box width = 500 pixels width. Enony

Applying masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each 150px height:

### TRATANDO ESTOURO

- Quando a especificação do tamanho do elemento é insuficiente ocorre o estouro (overflow) da exibição
- A maneira de tratar o estouro pode ser tratado pelo navegador é utilizando a propriedade overflow como mostrado a seguir

#### visible

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

#### hidden

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely

#### scroll

Applying the masks to the glasses is the most laborintensive part of the process. Not only do you have to measure, place, and burnish on each

#### auto (short text)

Applying the masks to the glasses is the most labor-intensive part of the process.

#### auto (long text)

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also

### **PADDING**

- Espaço entre a área de conteúdo e a borda
- Comumente utilizado quando há cores de fundo e/ou bordas
- Pode ser especificado para todos os lados em conjunto ou individualmente, conforme mostrado

### padding-top, padding-right, padding-bottom, padding-left

Values: length measurement | percentage | inherit

Default: 0

Applies to: all elements except table-row, table-row group, table-header-group, table-footer-group, table-column, and

table-column-group

Inherits: no

#### padding

Values: length measurement | percentage | inherit

Default: 0

Applies to: all elements

Inherits: n

### **PADDING**

```
blockquote {
  padding-top: 1em;
  padding-right: 3em;
  padding-bottom: 1em;
  padding-left: 3em;
  background-color: #D098D4;
}
```

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal. The only

part of the glass that should be visible is the part that I want frosted.

1em

## **PADDING**

padding: top right bottom left;

```
blockquote {
  padding: 1em 3em 1em 3em;
  background-color: #D098D4;
}
```

## **BORDERS**

border-top-style, border-right-style,
border-bottom-style, border-left-style

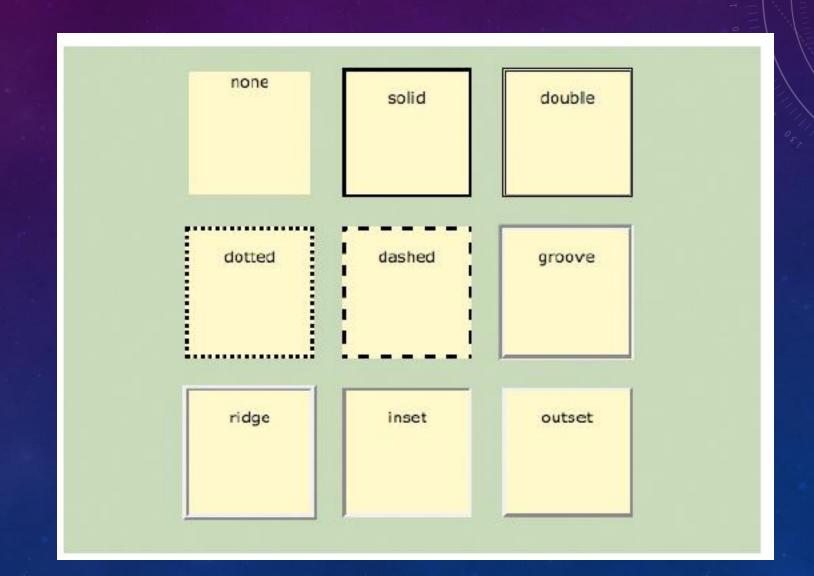
Values: none | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit

Default: none

Applies to: all elements

Inherits: no

## **BORDERS**



```
div#help {
  border-top-width: thin;
  border-right-width: medium;
  border-bottom-width: thick;
  border-left-width: 12px;
  border-style: solid;
  width: 300px;
  height: 100px;
```



maroon on the top and bottom; aqua on the sides

### **MARGINS**

- Espaço adicional além da borda
- Utilizado para ceder espaço para outros elementos, inclusive em colunas e criação de layouts de página em CSS

### margin-top, margin-right, margin-bottom, margin-left

Values: length measurement | percentage | auto | inherit

Default: auto

Applies to: all elements

Inherits: no

### margin

Values: length measurement | percentage | auto | inherit

Default: auto

Applies to: all elements except elements with table display types other than table-caption, table, and inline-table

Inherits: no

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

margin: 4em;

After the blasting, the protective paper and the resist masks needs to be removed from the glasses. A cycle in the dishwasher finishes the job. margin-top: 2em;
margin-right: 250px;
margin-bottom: 1em;
margin-left: 4em;

## **EXERCÍCIO**

Criar uma folha de estilos CSS para o HTML criado no exercício anterior. Atualizar a estrutura criada no Replit (ou similar) com o estilo criado. Utilize a estrutura de diretórios mostrada abaixo para organizar seus arquivos.



## REFERÊNCIAS

- http://www.csszengarden.com/
- https://www.w3.org/Style/CSS/
- https://alistapart.com/
- https://www.thoughtco.com/css2-vs-css3-3466978